

IN THE ABSTRACT:

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ABSTRACT OF THE DISCLOSURE

In a magnetic resonance imaging apparatus and a method for shimming such an apparatus, at each of mirror-symmetrical assemblies respectively disposed at opposite faces of a static magnetic field generator, that each include a shimming ring, an additional shimming ring is provided that is adjustable in position relative to the other shimming ring to shim the static magnetic field. Additionally or alternatively, at each face of the static magnetic field generator, a permanently magnetic arrangement is provided that is divided into a number of permanently magnetic columns respectively having different energy levels. Additionally or alternatively, magnetic bolts, such as magnetically conducting bolts or permanently magnetic bolts can be symmetrically inserted into either of the mirror-symmetric assemblies, or the permanently magnetic columns, for additionally shimming adjustment.